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# REMOTE COMMUNITY DEMONSTRATION PROGRAM

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# ***REMOTE COMMUNITY DEMONSTRATION PROGRAM***

A FEDERAL PROGRAM TO PROMOTE OFF-OIL  
ENERGY ALTERNATIVES AND ENERGY  
CONSERVATION IN REMOTE COMMUNITIES

1982

(Aussi disponible en français)



Energy, Mines and  
Resources Canada

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In line with its national off-oil energy policies, the federal government has recognized the need to provide assistance for those communities that are not served by the main electrical grid and are without access to natural gas.

The Program outlined in this brochure is in direct response to that concern. Its basic goal is to promote the awareness and realization of alternative energy supply and energy conservation opportunities in these remote communities.

By the end of the Program, citizens in these communities should be better informed of a range of effective measures to reduce oil consumption through the use of alternative energy supply and energy conservation technologies.



## ***THE NEED***

Over three hundred remotely located Canadian communities do not have access to electricity grids or natural gas distribution systems. Most of these communities will continue to depend on oil products for electrical power generation and space heating.

The price of oil is high and will continue to rise as supplies diminish. Transporting fuel oil to remote areas is costly, difficult and subject to delay and disruption. Where diesel fuel is used to generate electricity, high costs and limited service often restrict the electricity supply available for homes, community buildings, and local industries.

## ***THE RESPONSE***

In support of the federal government's national off-oil objectives, the Department of Energy, Mines and Resources has established the new Remote Community Demonstration Program (RCDP). This four-year, two-phase program of financial assistance and information transfer is designed to help promote the adoption of alternative approaches to energy supply and to energy conservation in remote communities.

The Program is aimed specifically at power generation and space heating on the community scale. Its goal is to reduce dependence on oil and broaden awareness of more appropriate (and often locally available) renewable fuels, conservation methods and other practical alternatives.

The Remote Community Demonstration Program can help communities achieve greater self-reliance in energy supply, lower long-term energy costs and, in some cases, increased levels of electrical service for domestic, community, and industrial needs.

It also may offer opportunities for local employment and training through construction and operation of new energy systems.

# ***THE PROGRAM***

The Program will support technical studies and demonstration projects dealing with off-oil alternatives and help transfer the results of these studies and projects to the communities where they are needed. It will operate over a four-year period, from October 1982 to March 1986. It will be implemented in two overlapping but distinct phases.

## ***Phase I (October 1982 — March 31, 1984)***

In Phase I, the Program will provide financial assistance toward the production of studies to investigate alternative energy supply and energy conservation options available to remote communities. These studies will assist communities in pursuing viable options themselves or in conjunction with those agencies responsible for their energy supply. Applications will be accepted from single communities, from groups of communities with common options, or from other agencies responsible for, or directly interested in, remote community energy supply.

## ***Phase II (Summer 1983 — March 31, 1986)***

In Phase II, the Program will provide financial assistance for demonstrations of practical, effective, and economic energy supply alternatives and energy conservation. Because the costs of demonstrations are high, relatively few such projects will be undertaken. Phase II will try to demonstrate the most practical technologies and measures and those with the widest scale of application to remote communities in the most appropriate communities for demonstration. A major factor in selecting demonstrations will be their potential to increase awareness of the demonstrated options to other remote communities. While Phase I participation is neither a guarantee of, nor a prerequisite to, Phase II participation, the results of Phase I will be used as a basis to develop the Phase II demonstration program. Details of and application procedures for Phase II will be announced separately.

The remainder of this brochure applies to Phase I only.

## ***ELIGIBLE COMMUNITIES***

To be eligible, communities must be permanent (or have at least five years of planned life remaining) and have no less than ten occupied principal residences. Within this definition, communities are eligible if:

- they are in the Yukon Territory or Northwest Territories; or
- they are in a province but are off the main electrical grid and are not served by natural gas pipeline.

Communities for which there is firm commitment for connection to grid or natural gas distribution systems are not eligible.

## ***ELIGIBLE APPLICANTS***

Proposals for financial assistance under Phase I will be accepted from:

- eligible communities as represented by recognized local organizations (preferably local governments)
- groups of eligible communities with common supply possibilities, as may be represented by recognized associations
- companies (e.g., forestry, mining) that maintain eligible communities as part of their operations
- provincial or territorial utilities
- federal departments and Crown corporations
- other levels of government and Crown corporations (e.g., provincial, territorial)
- other agencies responsible for or directly interested in energy supply and conservation for remote communities.

Proposals must be submitted by eligible proponents in order to receive consideration under the Program. Proposals not originating directly from communities themselves should be submitted on behalf of and have the support of the individual communities or groups of communities involved.



## ***ELIGIBLE STUDIES***

A wide variety of studies will be eligible for consideration under Phase I including:

- energy use analyses
- energy option identification and analyses
- energy pre-feasibility and feasibility studies
- energy resource base studies.

Funding awards will be based on the merits of the proposal. Studies will normally be funded in the range of \$10 000 to \$25 000, although studies requiring larger contributions will be considered on the basis of their merit in the context of other proposals submitted for consideration. Joint or cost-shared proposals are preferred. Proponents are encouraged to employ other sources of co-operative funding as an element of their proposal, in particular where higher cost studies are contemplated.

## ***ELIGIBLE TECHNOLOGIES AND MEASURES***

The focus of the Program is on mature and highly promising technologies and measures with near-term potential for implementation in remote communities. A wide range of energy supply technologies and conservation measures are eligible for consideration under Phase I, including but not limited to:

- renewable energy supply using hydro, biomass, wind, and other fuel sources
- non-renewable energy supply using local natural gas, peat and coal sources
- cogeneration and waste heat recovery, which permit more efficient use of oil-fueled systems
- district heating
- heat pumps
- various energy conservation measures
- grid extensions (Phase I only).



## ***HOW TO APPLY***

Applicants are invited to submit proposals for Phase I financial assistance to the Department's Conservation and Renewable Energy Office (CREO) located in their province or territory (pp 11-12). The staff of CREO offices will provide guidance in the preparation of proposals if required. Copies of proposals received by the Department will not normally be returned.

Applications for assistance to carry out studies will be received up to September 30, 1983. All funded studies must be completed by March 31, 1984.

There is no formal application form. Proposals shall provide information, as available, according to the following elements:

1. Name, title, phone number, and mailing address of applicant.
2. Description of subject community or communities including: geographical location, current population, number of households, economic base, degree of permanence, brief historical background.
3. Background energy data as appropriate to the proposed study and as available, e.g: level of electrical service, annual energy demand, peak load, source of electric service (hydro, diesel, other), supplier of electrical service, fuel costs, end users.
4. Itemized description of proposed study according to the following categories:
  - title
  - objectives
  - statement of work itemizing specific activities to be performed under the proposed study showing at least two phases, each of which would culminate in a tangible output, normally a report
  - a phased study schedule (All studies must be completed by March 31, 1984)
  - study manager
  - study consultant (if known).

5. A statement of study costs including:
  - amount requested under RCDP by study phase
  - amount to be provided by applicant
  - amount to be provided by others
  - total study cost.
6. Statement of support by the local government where the study is proposed on behalf of, or concerns, a particular community or group of communities.
7. Statement of anticipated benefits of study in relation to the community or communities, and to the Program's oil reduction objectives.
8. Statement of the potential for the transfer of results of the study to other remote communities.
9. A statement indicating that any or all information extracted from the application or study, if approved, may be used by Energy, Mines and Resources Canada in the further implementation and evaluation of the Remote Community Demonstration Program.
10. Indication that the study will not duplicate existing information.

## ***REVIEW OF APPLICATIONS***

Applications will be reviewed by an advisory committee in each province or territory, which may consist of federal, provincial/territorial and other representatives. These committees will be responsible for ensuring that each proposal receives the fairest possible consideration. Proposals will be rated according to a comprehensive evaluation system based on predetermined criteria and priorities, and ranked and recommended accordingly for consideration in the national context. Full or partial funding cannot be guaranteed.

The criteria that will be employed in the evaluation and ranking of proposals will take into account:

- potential for the displacement of, or reduction in the use of petroleum-based fuels;
- potential to promote general awareness of and local initiative in pursuing viable energy supply alternatives and energy conservation measures;
- potential to lead to identification of alternative energy supply and conservation projects;
- potential for wider scale application of the findings to other communities with similar problems or opportunities;
- social/economic benefits to the subject community, which may accrue or be identified as a result of the proposed study;
- commitment and capability of proponent to implement applicable recommendations resulting from the proposed study;
- demonstrated sensitivity of the proponent (and the consultant) to the interests and concerns of the community regarding the proposed study;
- soundness of the proposed study and the study schedule;
- technical/management capability of the applicant (and the consultant) to carry out the study;
- reasonableness of the cost of the proposed study and the amount of contribution sought under the Program;
- degree of cost sharing or participation by applicant and others.

In addition, the national criteria will take account of:

- equitable distribution of Program funds among remote communities, provinces, and territories;
- representative distribution of Program funds among various alternative energy supply and energy conservation solutions.

## ***AWARDS***

Successful applicants will be notified promptly following departmental review. They will be required to sign a contribution agreement or contract, which will make special reference to study requirements and conditions including but not limited to:

- required study outputs
- schedule for contribution payments
- project reports
- information transfer
- federal recognition
- agencies to be contacted in the course of study
- maintenance of records for audit purposes.



## ***WHERE TO APPLY***

Enquiries and applications should be marked "RCDP Enquiry" or "RCDP Application" accordingly, and addressed to the appropriate Conservation and Renewable Energy office of Energy, Mines and Resources Canada as listed below. Telephone numbers are provided for preliminary contact.

### ***NEWFOUNDLAND***

Box 65, Atlantic Place  
215 Water Street, 7<sup>th</sup> Floor  
St. John's, Nfld. A1C 6C9  
(709) 772-5353  
Zenith: 07792 (Nfld. & Lab.)  
(toll-free)

### ***NOVA SCOTIA***

Bank of Montreal Tower  
5<sup>th</sup> Floor, Suite 503  
5151 George Street  
Halifax, N.S. B3J 1M5  
(902) 426-8600  
Zone line: 1-426-8600  
(toll-free)

### ***PRINCE EDWARD ISLAND***

Waterfront Shopping Centre  
98 Water Street  
Summerside, P.E.I. C1N 4N6  
or  
P.O. Box 2249  
Summerside, PEI  
C1N 4M1  
(902) 436-7283  
Zenith: 07792 (toll-free)

### ***NEW BRUNSWICK***

835 Champlain Street  
Dieppe, N.B. E1A 1P6  
(506) 388-6070  
1-800-332-3908 (toll-free)

### ***MANITOBA***

Main Floor  
112-110 Osborne Street S.  
Winnipeg, Man. R3L 1Y5  
(204) 949-4266  
1-800-542-8928 (toll-free)

### ***SASKATCHEWAN***

S.J. Cohen Building,  
Suite 706  
119-4<sup>th</sup> Avenue S.  
Saskatoon, Sask. S7K 5X2  
(306) 665-4532  
1-800-667-9719 (toll-free)

### ***ALBERTA***

Grandin Park Plaza  
2<sup>nd</sup> Floor, Room 200  
22 Sir Winston Churchill  
Avenue  
St. Albert, Alta. T8N 1B4  
(403) 420-4036  
1-800-222-6477 (toll-free)

### ***BRITISH COLUMBIA***

Marlborough Mall  
5021 Kingsway  
3<sup>rd</sup> Floor, Room 320  
Burnaby, B.C. V5H 2E5  
(604) 524-7222  
(112) 800-663-1280 (toll-free)

## ***QUEBEC***

605 Dorchester Blvd. W.  
Ground Floor  
Montréal, Québec  
H3B 1P4  
(514) 283-5632  
1-800-361-8025 (toll-free)

## ***ONTARIO***

2242 Lakeshore Blvd. W.  
Toronto, Ontario M8V 1A5  
(416) 252-5866  
1-800-268-2207 (toll-free)

## ***NORTHWEST TERRITORIES***

Precambrian Building  
10<sup>th</sup> Floor  
4922-52<sup>nd</sup> Street  
or  
P.O. Box 68  
Yellowknife, N.W.T. X1A 2N1  
(403) 920-8475  
Zenith 2828 (toll-free)

## ***YUKON***

2078 Second Avenue  
Whitehorse, Yukon Y1A 1B1  
(403) 668-2828  
Zenith 2828 (toll-free)

## ***FURTHER INFORMATION***

For further information about the Program, including guidance in filing applications, please contact the appropriate EMR Conservation and Renewable Energy Office in your province or territory. For more general inquiries, contact:

Program Coordinator  
Remote Community Demonstration Program  
Renewable Energy Division  
Conservation and Non-Petroleum Sector  
Department of Energy, Mines and Resources  
Ottawa, Ontario  
K1A 0E4  
Phone — (613) 995-9447



